ABSTRACT

A synchronization control device and a synchronization control method are provided in which it includes controllers Am and Asl of a master section and a slave section for accurately synchronizing rotational frequency and rotation phases of driving electric motors Mm and Ms1. The controller As1 includes rotational frequency detectors Ss1, Fs1, a master phase counter Cm1, and a slave phase counter Cs1, and detects at all times both of a rotational frequency and a rotation phase of the electric motors Mm of the master based upon an output of the rotary encoder Pm, and further detects at all times both of a rotational frequency and a rotation phase of the electric motor Ms1 of the slave. A phase deviation calculator Hs1 is provided to calculate synchronization phase deviation at all times, and when a switch RYs1 is actuated, it corrects an output of the rotational frequency detection means Ss1 based upon the phase deviation and matches origins of the electric motors of the master section and the slave section to shift the operation to synchronization control.